

STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
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4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

May 27, 1983

Mr. Philip N. Raines  
Utah Marblehead Lime Company  
P.O. Box 488  
Chicago Heights, Illinois 60411

RE: Test Plot Recommendations  
ACT/045/003  
Tooele County, Utah

Dear Mr. Raines:

Following are the Division's recommendations for setting up test plots on Utah Marblehead Lime Company's plant site:

1. Two different fertilizer treatments are recommended for comparison; the BIM's recommended mix at a rate of 10-20-10 pounds per acre, and a Division recommended mix at 40-0-30 pounds per acre. In both cases, nitrogen should be applied as  $\text{NH}_4\text{SO}_4$  to help mitigate the high sodium content of the soil.
2. Since soil texture is coarse, organic material such as wood chips, straw, manure, sewage sludge, etc. may need to be added. Recommended rates would depend on the material used.
3. The following mix is recommended to be broadcast seeded on the plots and lightly covered:

<u>Species</u>	<u>lbs Pure Live Seed/Acre</u>
Bluebunch Wheatgrass	2
Thickspike Wheatgrass	2
Galleta Grass	2
Indian Ricegrass	2
Gooseberryleaf Globemallow	1
Yellow Sweetclover	1
Winterfat	2
Four-wing Saltbush	2
	<hr/> 14 Total

If there is enough space, individual species could also be seeded in rows, to avoid any negative competitive interactions between species.




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Based on the above recommendations, five plots will need to be delineated, employing the following techniques:

1. Control-seed only
2. Seed & BIM fertilizer mix
3. Seed & BIM fertilizer mix & organic matter
4. Seed & DOQM fertilizer mix
5. Seed & DOQM fertilizer mix & organic matter

Test plots should be implemented this fall to take advantage of winter moisture. Please contact me or Tom Portle if you need further clarification.

Sincerely,

  
SUSAN C. LINNER  
RECLAMATION BIOLOGIST

SCL/lm

cc: Tom Portle, DOQM